



**BIG SKY CIVIL &
ENVIRONMENTAL, INC**

ENGINEERS - PLANNERS - DESIGNERS -
LAND SURVEYORS - ENVIRONMENTAL SPECIALISTS

1324 13th Ave. SW
P.O. BOX 3625
GREAT FALLS, MT 59403
(406)727-2185 OFFICE
(406)727-3656 FAX
www.bigskyce.com

PROFESSIONAL SEAL

BY: KJM
DATE: 4/17/19

OWNER:

MADISON
FOOD
PARK, LLC

PROJECT NAME:

MADISON
FOOD
PARK

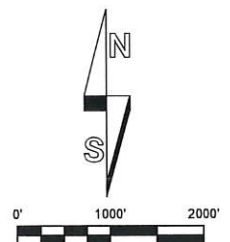
SHEET TITLE:

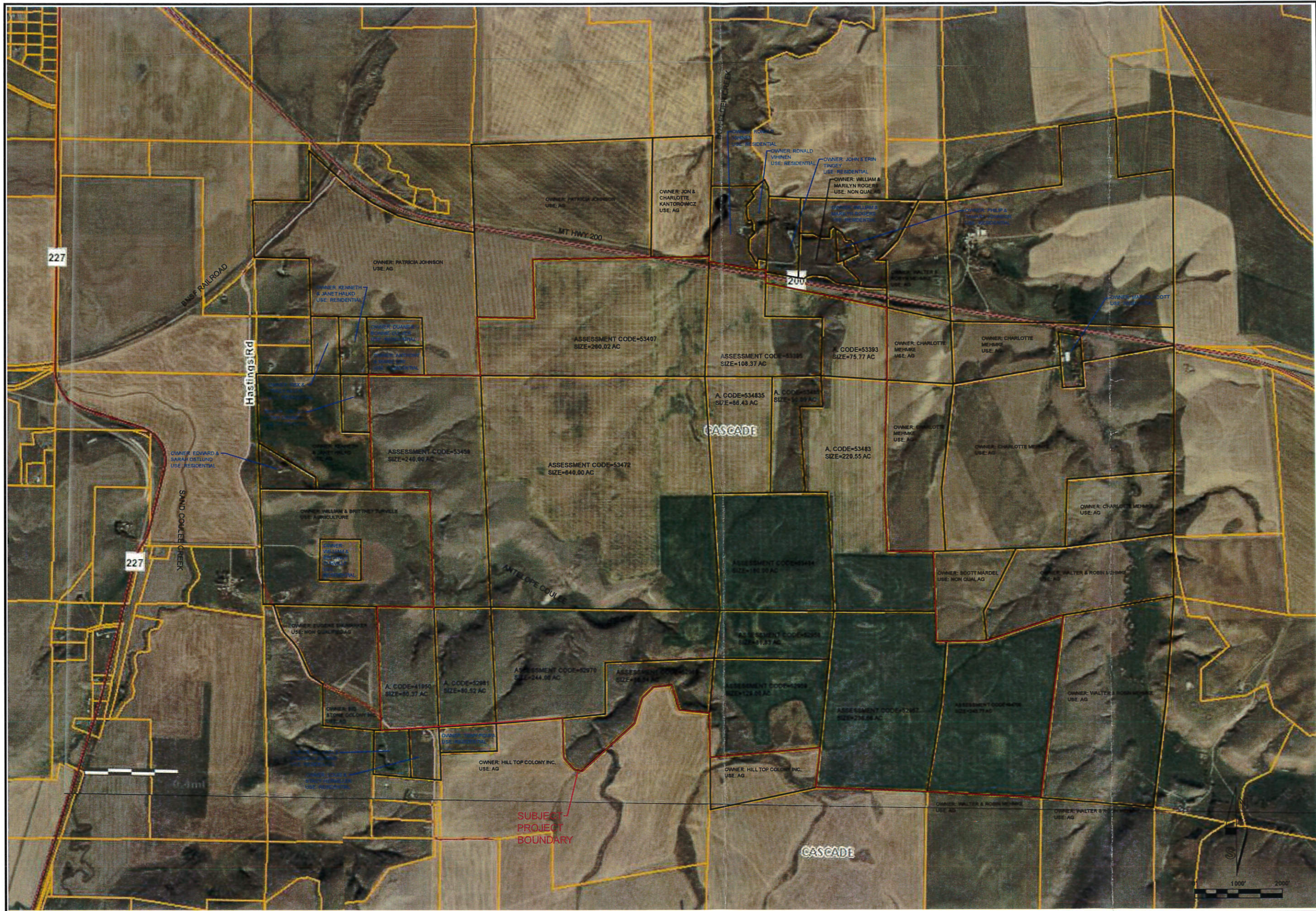
SITE
AERIAL
MAP
DAIRY/CHEESE
PLANT

DRAWING INFORMATION:
OFFICE PROJECT NUMBER: 17BN
OWNER FILE NUMBER: XXXX
CADD FILE NAME: 17BN-BASE
ASSOCIATED PROJECTS: XXXX

FIGURE:

EXHIBIT A





**BIG SKY CIVIL &
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PROFESSIONAL SEAL

BY: KJM
DATE: 4/17/19

OWNER:

MADISON
FOOD
PARK, LLC

PROJECT NAME:

MADISON
FOOD
PARK

SHEET TITLE:

PROPERTY
OWNERSHIP & LAND
USE MAP
DAIRY/CHEESE
PLANT

DRAWING INFORMATION:
OFFICE PROJECT NUMBER: 17BN
OWNER FILE NUMBER: XXXX
CADD FILE NAME: 17BN-BASE
ASSOCIATED PROJECTS: XXXX

FIGURE:
EXHIBIT B



bsc&e

**BIG SKY CIVIL &
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PROFESSIONAL SEAL

BY: KJM

DATE: 4/17/19

OWNER:

MADISON
FOOD
PARK, LLC

PROJECT NAME:

MADISON
FOOD
PARK

SHEET TITLE:

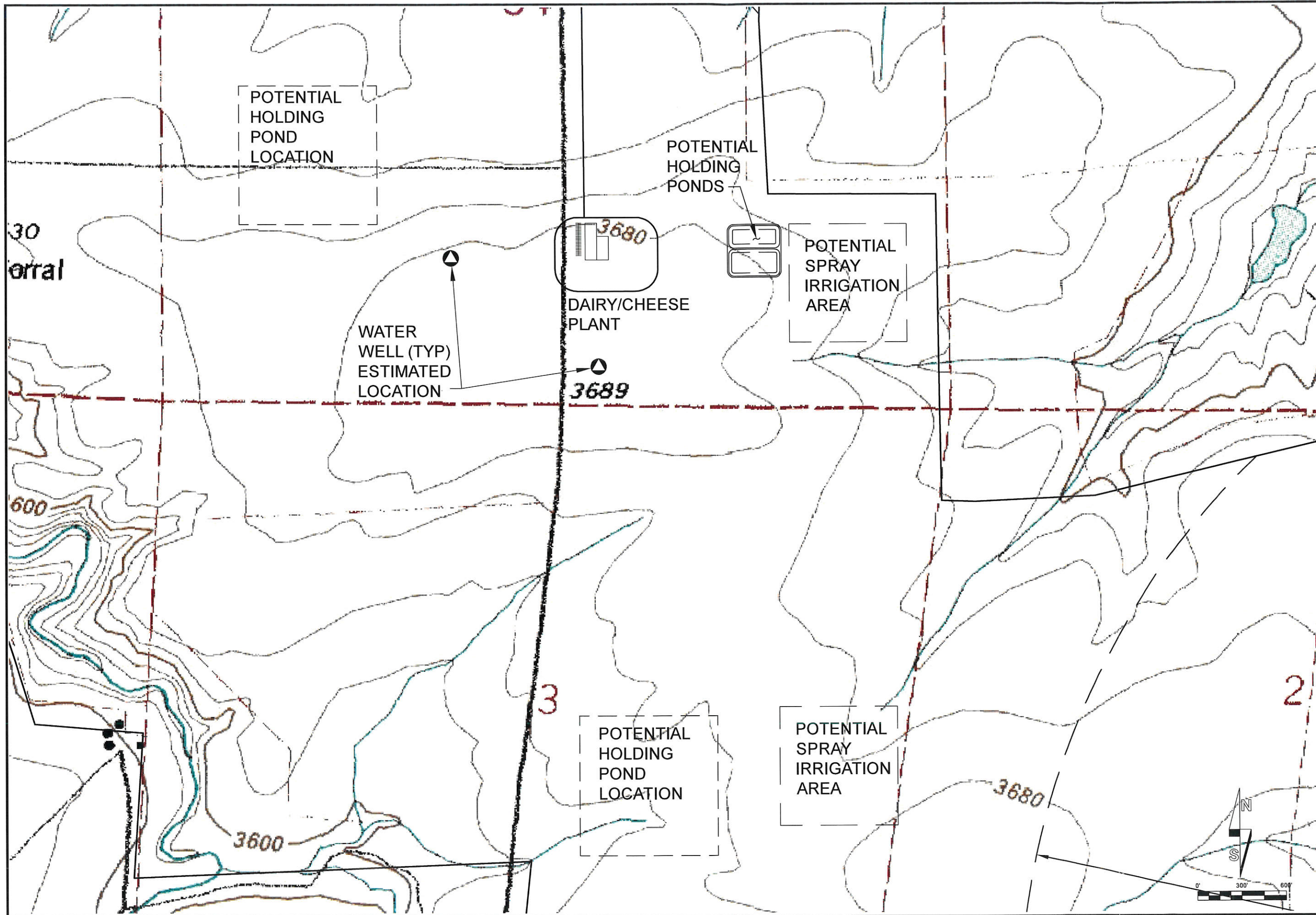
DRAFT
SITE
MAP
DAIRY/CHEESE
PLANT

DRAWING INFORMATION:

OFFICE PROJECT NUMBER: 17BN
OWNER FILE NUMBER: XXXX
CADD FILE NAME: 17BN-BASE
ASSOCIATED PROJECTS: XXXX

FIGURE:

EXHIBIT D



bsc&e
BIG SKY CIVIL &
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(406)727-3656 FAX
www.bigskyce.com

PROFESSIONAL SEAL

BY: KJM
DATE: 4/17/19

OWNER:

MADISON
FOOD
PARK, LLC

PROJECT NAME:

MADISON
FOOD
PARK

SHEET TITLE:

SITE
CONTOUR
MAP
DAIRY/CHEESE
PLANT

DRAWING INFORMATION:

OFFICE PROJECT NUMBER: 17BN
OWNER FILE NUMBER: XXXX
CADD FILE NAME: 17BN-BASE
ASSOCIATED PROJECTS: XXXX

FIGURE:

EXHIBIT E

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Montana State Plane Zone (FIPS zone 2500). The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS-12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from NAIP Orthophotography produced with a one meter ground resolution from photography dated 2005.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/info>.

NOTICE TO MAP USERS

FEMA maintains information about map features, such as street locations and names, in or near designated flood hazard areas. Requests to revise information in or near designated flood hazard areas may be provided to FEMA during the community review period or at the final Consultation Coordination Officer's meeting. Approved requests for changes will be shown on the final printed FIRM.

Cascade County Vertical Datum Offset Table

Flooding Source	Vertical Datum Offset (ft)	Flooding Source	Vertical Datum Offset (ft)
Tributary A	3.0	Missouri River (Near Hardy)	3.1
Cottonwood Creek	3.0	Missouri River (Near Ulin)	3.0
Sand Coulee Creek	3.0	Missouri River (At Great Falls)	3.0
Sun River (Near Vaughn)	3.0	Sand Coulee Creek (Horshide of Railroad)	3.0
Sun River (Near Great Falls)	3.0	Sand Coulee Fork	3.0
Sun River (Near Simms)	3.1	Belt Creek	3.0
Gibson Flats	3.0	Sun River Overflow	3.0

Example: To convert Cottonwood Creek elevations to NAVD 88, 3.0 feet were added to the NGVD 29 elevations.



LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AS, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of shallow flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently determined. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE AS** Area to be protected from 1% annual chance flood by a federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*
- *Referenced to the North American Vertical Datum of 1988
- 45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 4989000 M 1000-meter ticks: Montana State Plane Zone (FIPS Zone 2500), Lambert Conformal Conic projection
- 4989000 M 1000-meter Universal Transverse Mercator grid values, zone 12
- DX5510 X Bench mark (see explanation in Notes to Users section of this FIRM panel)
- MAP REPOSITORIES
- Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
- March 19, 2013
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
- For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
- To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.
- MAP SCALE 1" = 500'
- 250 0 500 1000 FEET
- 150 0 150 300 METERS

NFIP

PANEL 0634E

FIRM

FLOOD INSURANCE RATE MAP
CASCADE COUNTY,
MONTANA
AND INCORPORATED AREAS

PANEL 634 OF 1800
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CASCADE COUNTY	300008	034	E
Unincorporated Areas			

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
30013C0634E
EFFECTIVE DATE
MARCH 19, 2013
Federal Emergency Management Agency

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 20 NORTH.



ZONE D

Cascade County
Unincorporated Areas
300008

HASTINGS RD.

HIDDEN VALLEY LN

LIMIT OF STUDY

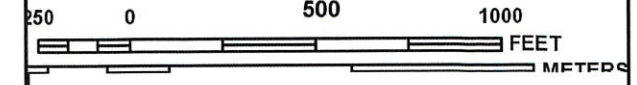
Subject Property

JOINS PANEL 0675

52° 55' 00" N



MAP SCALE 1" = 500'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0634E

FIRM
FLOOD INSURANCE RATE MAP
CASCADE COUNTY,
MONTANA
AND INCORPORATED AREAS

PANEL 634 OF 1800
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:			
COMMUNITY	NUMBER	PANEL	SUFFIX
CASCADE COUNTY, Unincorporated Areas	300008	0634	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
30013C0634E
EFFECTIVE DATE
MARCH 19, 2013

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov